

The listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1-10 (canceled)

11. (previously presented) An isolated polynucleotide that encodes a pyridoxamine-phosphate oxidase, wherein the polypeptide has a sequence identity of at least 80%, based on the Clustal method of alignment, when compared to SEQ ID NO:10.

12. (previously presented) The polynucleotide of Claim 11 wherein the sequence identity is at least 90%.

13. (previously presented) The polynucleotide of Claim 11 wherein the sequence identity is at least 95%.

14. (previously presented) The polynucleotide of Claim 11 wherein the polynucleotide encodes SEQ ID NO:10.

15. (previously presented) The polynucleotide of Claim 11, wherein the polynucleotide comprises SEQ ID NO:9.

16. (previously presented) An isolated complement of the polynucleotide of Claim 11, wherein (a) the complement and the polynucleotide consist of the same number of nucleotides, and (b) the nucleotide sequences of the complement and the polynucleotide have 100% complementarity.

17. (canceled)

18. (previously presented) A chimeric gene comprising the polynucleotide of Claim 11 operably linked to at least one regulatory sequence.

19. (previously presented) A cell comprising the polynucleotide of Claim 11.

20. (previously presented) The cell of Claim 19, wherein the cell is selected from the group consisting of a yeast cell, a bacterial cell and a plant cell.

21. (previously presented) A virus comprising the polynucleotide of Claim 11.

22. (previously presented) A transgenic plant comprising the polynucleotide of Claim 11.

23. (previously presented) A method for transforming a cell comprising introducing into a cell the polynucleotide of Claim 11.

24. (previously presented) A method for producing a transgenic plant comprising (a) transforming a plant cell with the polynucleotide of Claim 11, and (b) regenerating a plant from the transformed plant cell.

25. (previously presented) A vector comprising the polynucleotide of Claim 11.

26. (previously presented) A seed comprising the chimeric gene of Claim 18.

27. (previously presented) A method for isolating a polypeptide encoded by the polynucleotide of Claim 11 comprising isolating the polypeptide from a cell transformed with said polynucleotide.